

SUB A' >

1. A method for load balancing in a link aggregation environment comprising the steps of:
- determining if a packet flow in a network switch exceeds a predetermined threshold;
 - determining if said packet flow is a candidate for link switching from a first link to a second link if said packet flow exceeds said predetermined threshold ; and
 - switching said packet flow from said first link to said second link if said packet flow is determined to be a candidate for link switching.
2. The method as recited in claim 1, wherein said step of determining if said packet flow is a candidate for link switching further comprises the steps of:
- determining if a first packet in said packet flow is larger than a second packet in said packet flow; and
 - determining if a transmitting queue depth is sufficient to receive said second packet in the packet flow.
3. The method as recited in claim 2, wherein said step of determining if a transmitting queue depth is sufficient to receive said second packet further comprises the step of determining if a queue depth at said first link plus a number of bits in a current packet is greater than a queue depth at said second link.
4. The method as recited in claim 1, wherein said switching step further comprises the step of updating a rules table to reflect said switching of said packet flow to said second link.
5. A method for load balancing in a link aggregation environment comprising the steps of:
- determining a length of a first frame and a length of a second frame entering the link aggregation environment;
 - determining a flow rate of said first frame and said second frame entering the link aggregation environment;

determining if a first frame in the packet flow is larger than a second frame in the packet flow; and

